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ATTY DOCKET NO.: 96-00		SERIAL NO.: 10/068,557	FILING DATE: February 5, 2002
APPLICANT: Wand et al.		GROUP: 1756	

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>ms</i>	1	6,413,448	7/2/02	Wand et al.	252	299.63	
	2	6,139,771	10/31/00	Walba et al.	252	299-01	
	3	6,106,908	08/22/00	Duffy et al.	428	1.1	
	4	6,084,649	07/04/00	Amano et al.	349	96	
	5	6,057,007	05/02/00	Amano et al.	428	1	
	6	6,057,006	05/02/00	Kirsch et al.	428	1	
	7	6,051,639	04/18/00	Mehl et al.	524	205	
	8	6,045,720	04/04/00	Shundo et al.	252	299.61	
	9	6,030,547	02/29/00	Hasegawa et al.	252	299.61	
	10	6,019,911	02/01/00	Hirano et al.	252	299.62	
	11	6,018,070	01/25/00	Ito et al.	560	76	
	12	6,007,737	12/28/99	Nishiyama et al.	252	299.01	
	13	6,002,042	12/14/99	Mine et al.	560	66	
	14	6,001,278	12/14/99	Matsumoto et al.	252	299.65	
	15	5,985,172	11/16/99	Motoyama et al.	252	299.64	
	16	5,980,780	11/09/99	Motoyama et al.	252	299.64	
	17	5,976,409	11/02/99	Mineta et al.	252	299.65	
	18	5,972,243	10/26/99	Mine et al.	252	299.65	
	19	5,972,241	10/26/99	Johnson et al.	252	299.61	
	20	5,968,413	10/19/99	Mine et al.	252	299.65	
	21	5,951,914	09/14/99	Matsumoto et al.	252	299.67	
<i>ms</i>	22	5,949,391	09/07/99	Saishu et al.	345	50	

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<i>23</i>	5,943,112	08/24/99	Mochizuki et al.	349	173	
<i>24</i>	5,942,155	08/24/99	Coles et al.	252	299.64	
<i>25</i>	5,938,973	08/17/99	Motoyama et al.	252	299.65	
<i>26</i>	5,936,689	08/10/99	Saishu et al.	349	123	
<i>27</i>	5,932,136	8/3/99	Terada et al.	252	299-01	
<i>28</i>	5,928,562	07/27/99	Kistner et al.	252	299.6	
<i>29</i>	5,922,242	07/13/99	Saishu et al.	252	299.62	
<i>30</i>	5,888,420	03/30/99	Sakai et al.	252	299.01	
<i>31</i>	5,866,036	02/02/99	Wand et al.	252	299.6	
<i>32</i>	5,861,109	01/19/99	Goodby et al.	252	299.65	
<i>33</i>	5,861,108	01/19/99	Ishida et al.	252	299.62	
<i>34</i>	5,858,273	01/12/99	Asaoka et al.	252	299.4	
<i>35</i>	5,856,815	01/05/99	Mochizuki et al.	345	97	
<i>36</i>	5,855,813	01/05/99	Coles et al.	252	299.5	
<i>37</i>	5,855,812	01/05/99	Radcliffe et al.	252	299.01	
<i>38</i>	5,827,448	10/27/98	Konuma et al.	252	299.61	
<i>39</i>	5,808,800	09/15/98	Handschy et al.	359	630	
<i>40</i>	5,770,108	06/23/98	Totani et al.	252	299.61	
<i>41</i>	5,753,139	05/19/98	Wand et al.	252	299.01	
<i>42</i>	5,750,214	05/12/98	Ito et al.	428	1	
<i>43</i>	5,748,164	05/05/98	Handschy et al.	345	89	
<i>44</i>	5,744,060	04/28/98	Tarumi, et al.	252	299.63	
<i>45</i>	5,739,885	4/14/98	Mochizuki et al.	349	135	
<i>46</i>	5,728,864	03/17/98	Motoyama et al.	560	59	

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47	5,723,069	03/03/98	Mineta et al.	252	299.67	
48	5,719,653	02/17/98	Minato et al.	349	156	
49	5,702,637	12/30/97	Johnson et al.	252	299.61	
50	5,695,683	12/09/97	Takeichi et al.	252	299.61	
51	5,660,762	08/26/97	Ito et al.	252	299.67	
52	5,658,493	08/19/97	Walba et al.	252	299.01	
53	5,658,491	08/19/97	Kistner et al.	252	299.01	
54	5,637,256	06/10/97	Walba et al.	252	299.66	
55	5,629,428	03/13/97	Schlosser et al.	546	303	
56	5,626,792	05/06/97	Wand et al.	252	299.01	
57	5,596,434	01/21/97	Walba et al.	349	123	
58	5,595,682	01/21/97	Goodby et al.	252	299.01	
59	5,585,036	12/17/96	Wand et al.	252	299.01	
60	5,583,682	12/10/96	Kitayama et al.	349	172	
61	5,568,299	10/22/96	Yoshihara et al.	359	100	
62	5,547,604	08/20/96	Coles et al.	252	299.01	
63	5,543,078	08/06/96	Walba et al.	252	299.65	
64	5,539,555	07/23/96	Wand et al.	359	100	
65	5,534,190	07/09/96	Johno et al.	252	299.65	
66	5,529,718	06/25/96	Hornung et al.	252	299.61	
67	5,498,368	03/12/96	Coles	252	294.67	
68	5,482,650	01/09/96	Janulis et al.	252	299.01	
69	5,474,705	12/12/95	Janulis et al.	252	299.01	
70	5,457,235	10/10/95	Wand et al.	568	65	

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<i>11</i>	71	5,455,697	10/03/95	Coles et al.	359	103	
	72	5,453,218	09/26/95	Wand et al.	252	299.01	
	73	5,445,763	08/29/95	Schlosser et al.	252	299.61	
	74	5,437,812	08/01/95	Janulis et al.	252	299.01	
	75	5,427,829	6/27/95	Mochizuki et al.	428	1	
	76	5,422,037	06/06/95	Wand et al.	252	299.61	
	77	5,417,883	05/23/95	Epstein et al.	252	299.01	
	78	5,399,701	03/21/95	Janulis	546	298	
	79	5,399,291	03/21/95	Janulis et al.	252	299.01	
	80	5,393,458	02/28/95	Stephen Kelly	252	299.01	
	81	5,391,319	02/21/95	Junge et al.	252	299.01	
	82	5,389,287	02/14/95	Nishiyama et al.	252	299.01	
	83	5,380,460	01/10/95	Wand et al.	252	299.6	
	84	5,378,396	01/03/95	Yui et al.	252	299.65	
	85	5,378,394	1/3/95	Dübal et al.	252	299.61	
	86	5,377,033	12/27/94	Radcliffe	359	75	
	87	5,374,375	12/20/94	Yui et al.	252	299.65	
	88	5,367,391	11/22/94	Johno et al.	359	56	
	89	5,352,379	10/04/94	Nishiyama et al.	252	299.62	
	90	5,348,685	09/20/94	Mochizuki et al.	252	299.62	
	91	5,346,647	09/13/94	Kelly et al.	252	299.63	
	92	5,346,646	09/13/94	Kawabata et al.	252	299.62	
	93	5,340,498	08/23/94	Arai et al.	252	299.65	
<i>11</i>	94	5,340,497	08/23/94	Wächtler et al.	252	299.61	

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<i>as</i>	<i>95</i>	5,338,482	8/16/94	Sakaguchi et al.	252	299.61	
	<i>96</i>	5,327,273	07/05/94	Beresnev et al.	359	104	
	<i>97</i>	5,322,639	06/21/94	Kawabata et al.	252	299.62	
	<i>98</i>	5,286,409	2/15/94	Dübal et al.	252	299.61	
	<i>99</i>	5,278,680	01/11/94	Karasawa et al.	359	40	
	<i>100</i>	5,275,757	01/04/94	Mineta et al.	252	299.61	
	<i>101</i>	5,271,864	12/21/93	Wand et al.	252	299.61	
	<i>102</i>	5,262,082	11/16/93	Janulis et al.	252	299.01	
	<i>103</i>	5,254,747	10/19/93	Janulis	568	650	
	<i>104</i>	5,250,219	11/05/93	Mori et al.	252	299.61	
	<i>105</i>	5,190,692	03/02/93	Coates et al.	252	299.63	
	<i>106</i>	5,180,521	01/19/83	Eidenschink et al.	252	299.61	
	<i>107</i>	5,180,520	01/19/93	Wand et al.	252	299.61	
	<i>108</i>	5,178,793	01/12/93	Vohra et al.	252	299.61	<i>TC 1700</i>
	<i>109</i>	5,178,791	01/12/93	Wand et al.	252	299.65	
	<i>110</i>	5,169,556	12/08/92	Mochizuki et al.	252	299.62	
	<i>111</i>	5,168,381	12/01/92	Walba	359	53	
	<i>112</i>	5,167,855	12/01/92	Wand et al.	252	299.01	
	<i>113</i>	5,138,010	8/11/92	Keller et al.	528	26	
	<i>114</i>	5,130,048	07/14/92	Wand et al.	252	299	
	<i>115</i>	5,110,497	05/05/92	Suzuki et al.	252	299	
	<i>116</i>	5,082,589	1/21/92	Bucheker et al.	252	299.63	
	<i>117</i>	5,082,587	01/21/92	Janulis	252	299.01	

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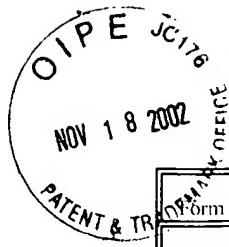
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118	5,071,589	12/10/91	Dübal et al.	252	299.61	
119	5,062,691	11/05/91	Tristani-Kendra et al.	359	56	
120	5,064,566	11/12/91	Hopf et al.	252	299.61	
121	5,061,814	10/29/91	Wand et al.	549	560	
122	5,055,221	10/8/91	Scheuble et al.	252	299.61	
123	5,051,506	09/24/91	Wand et al.	544	289	
124	4,952,335	08/28/90	Furukawa et al.	252	299.61	
125	4,943,384	07/24/90	Sucrow et al.	252	299.61	
126	4,886,622	12/12/89	Miyazawa et al.	252	299.61	
127	4,886,619	12/12/89	Janulis	252	299.1	
128	4,874,544	10/17/89	Yong et al.	252	299.61	
129	4,490,278	12/25/84	Shubert et al.	252	299.63	
130	4,367,924	01/11/83	Clark et al.	350	334	
131	4,212,762	7/15/80	Dubois et al.	252	299	

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		Document Number	Date	Country	Class	Subclass	Translation Yes/No
	132	WO 00/31210	06/02/00	PCT	C09K	19/04	
	133	WO 99/33814	07/08/99	PCT	C07D	239/26	
	134	WO 97/36908	10/09/97	PCT	C07F	7/21	
	135	WO 91/00897	01/24/91	PCT	C09K	19/34	
	136	WO 89/10356	11/2/89	PCT	C07D	213/06	
	137	87/05015	08/27/87	WO			Abstract Only
	138	87/05018	08/27/87	WO			Abstract Only



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139	86/06401	11/86	WO	—	Abstract Only
140	4315867	17.11.94	DE	—	Abstract Only
141	3928267	02/28/91	DE	—	Abstract Only
142	3906040	09/21/89	DE	—	Abstract Only
143	736,078 B1	06/24/98	EP	C09K 19/04	
144	579,545 B1	03/12/97	EP	G02F 1/1337	
145	425,304 B1	07/17/96	EP	G02F 1/137	
146	405,868 A2	01/02/91	EP	C09K 19/42	
147	255,236 B1	05/04/94	EP	C09K 19/20	
148	0 769 543 A1	4/23/97	EP	C09K 19/02	
149	0 401 522	12/12/90	EP	—	
150	0 545 409 B1	03/06/96	EP	—	
151	0 356 672	03/07/90	EP	—	
152	0 331 091	09/06/89	EP	—	
153	0 307 880	03/22/89	EP	—	Abstract Only
154	8-82778A	03/26/96	JP	G02F 1/13	Abstract Only
155	8-113784	05/1996	JP	C09K 19/54	
156	8-113784	05/1996	JP	—	Abstract Only
157	01053791	12/21/89	JP	C07D 319/06	Abstract Only
158	01071776	12/21/89	JP	C07D 239/26	Abstract Only
159	01041845	12/21/89	JP	C07C 43/20	Abstract Only
160	228128 A	08/15/00	JP	H01H 13/04	Abstract Only
161	1316372A2	12/21/89	JP	C07D 319/06	Abstract Only
162	1316367A2	12/21/89	JP	C07D 239/26	Abstract Only
163	1316339A2	12/21/89	JP	C07C 43/20	Abstract Only
164	1213390A2	08/28/89	JP	C09K 19/46	Abstract Only
165	63039286	08/28/89	JP	C09K 19/46	Abstract Only

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<i>165</i>	166	Arnett, K.E. et al., "Technique For Measuring Electronic-Based Electro-Optic Coefficients of Ferroelectric Liquid Crystals" (1995), <i>Mat. Res. Soc. Symp. Proc.</i> 392:135-146
	167	Bezborodov, V.S. et al., "Synthesis, mesomorphic properties and potential applications of aryl esters of 4-n-alkycyclohexene-1-carboxylic acids in electrooptic displays," (1989) CAPLUS 1989:240081 (abstract only)
	168	Bezborodov et al. (1989), "Synthesis, mesomorphic properties and potential applications of aryl esters of 4-n-alkycyclohexene-1-carboxylic acids in electrooptic displays," <i>Liq. Cryst. 4(2)</i> :209-215
	169	Blinov L.M. and Tournilhac, F., "Infra-Red Dichroism of Mesophases Formed By Polyphilic Molecules. 1. Development of the Technique and Study of Compounds With One Long Perfluorinated Tail"(1993), <i>Molecular Materials 3</i> :93-111
	170	Booth, C.J. et al., "The ferro-, ferri- and antiferro-electric properties of a series of novel 2- or 3-substituted-alkyl 4-(4'-dodecyloxybiphenyl-4-carbonyloxy)-benzoate esters" (1996), <i>Liquid Crystals 20(6)</i> :815-823
	171	Booth, C.J. et al., "Achiral swallow-tailed materials with 'antiferroelectric-like' structure and their potential use in antiferroelectric mixtures" (1996), <i>Liquid Crystals 20(4)</i> :387-392
	172	CAPLUS 1998: 624749
	173	CAPLUS 2001: 305417
	174	Chandani, A.D.L. et al., "Novel Phases Exhibiting Tristable Switching" (July 1989), <i>Jpn. J. App. Phys. 28</i> :L1261-1264
	175	Chandani, A.D.L. et al., "Antiferroelectric Chiral Smectic Phases Responsible for the Tristable Switching in MHPOBC"(July 1989), <i>Jpn. J. App. Phys. 28</i> :L1265-1268
	176	Chandani, A.D.L. et al., "Tristable Switching in Surface Stabilized Ferroelectric Liquid Crystals with a Large Spontaneous Polarization" (May 1988), <i>Jpn. J. App. Phys. 27(5)</i> :L729-L732
	177	Clark, N.A. and Lagerwall, S.T., "Submicrosecond bistable electro-optic switching in liquid crystals"(June 1980), <i>Appl. Phys. Lett. 36</i> :899-901

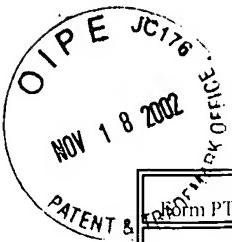


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<i>179</i>	Coates, D. and Greenfield, S. (1991), "Liquid crystal compositions comprising 4-alkyl-4'-(o-fluorophenethyl)bicyclohexanes for supertwisted nematic electrooptical display devices," <i>Chem. Abstracts</i> , Vol 115, Abstract No. 115: 82430v, p. 752
<i>180</i>	Dawson, D.J. et al., (1987) "Cocyclotrimerization of Aryl Acetylenes: Substituent Effects on Reaction Rate" <i>Am. Chem. Soc. Sym.</i> 346 Ch 38:446-456
<i>181</i>	de Vries, A., "Experimental Evidence Concerning Two Different Kinds Of Smectic C To Smectic A Transitions" (1977), <i>Mol. Cryst. Liq. Cryst. (Letters)</i> 41 :27-31
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<i>183</i>	Drzewinski, W. et al. "Antiferroelectric Liquid Crystals with Fluorinated Parts of Terminal Chains" CAPLUS 1998:624787 (abstract only)
<i>184</i>	Edgar, K. J. and Falling, S.N., "An Efficient and Selective Method for the Preparation of Iodophenols" (1990) <i>Org. Chem.</i> 55 : 5287-5291
<i>185</i>	Escher, C. et al. (1991), "Liquid crystal compositions for electrooptical display devices," <i>Chem. Abstracts</i> Vol 115, Abstract No. 115:194312q, p. 775
<i>186</i>	Fleming, F. F. and Jiang, T., "Unsaturated Nitriles: Optimized Coupling of the Chloroprene Grignard Reagent ¹ with ω -Bromonitriles" <i>J.Org. Chem.</i> (1997) 62 :7890-7891
<i>187</i>	Fung, B.M. et al. (1989), "Liquid crystals containing a cyclohexene ring," <i>Mol. Cryst. Liq. Cryst. Lett.</i> 6 (6):191-196
<i>188</i>	Gorecka, E. et al., "Molecular Orientational Structures in Ferroelectric, Ferrielectric and Antiferroelectric Smectic Liquid Crystal Phases as Studied by Conoscope Observation" (January 1990), <i>Jap. J. Appl. Phys.</i> 29 (1):131-137
<i>189</i>	Hartmann, W., "Uniform SSFLC Director Pattern Switching" (1988), <i>Ferroelectrics</i> 85 :67-77
<i>190</i>	Heinemann, S. et al., "Synthesis and Dielectric Investigations of New Swallow-Tailed Monomers and Polymers" (1993), <i>Mol. Cryst. Liq. Cryst.</i> 237 :277-283
<i>191</i>	Heinemann, S. et al., "Competition between dipolar and steric interactions in swallow-tailed compounds" (1993), <i>Liquid Crystals</i> 13 (3):373-380



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<i>193</i>		Inui, S. et al., "Thresholdless antiferroelectricity in liquid crystals and its application to displays" (1996), <i>J. Mater. Chem.</i> 6 (4):671-673
<i>194</i>		Inukai, T. et al., "Dicyanohydroquinone cyclohexanecarboxylic acid esters," (1980) CAPLUS 1989:604304 (abstract only)
<i>195</i>		Johno, M. et al., "Correspondence between Smectic Layer Switching and DC Hysteresis of Apparent Tilt Angle in an Antiferroelectric Liquid Crystal Mixture" (January 1990), <i>Jap. J. Applied Phys.</i> 29 (1):L111-114
<i>196</i>		Johno, M. et al., "Smectic Layer Switching by an Electric Field in Ferroelectric Liquid Crystals Cells" (January 1989), <i>Jpn. J. App. Phys.</i> 28 (1):L119-120
<i>197</i>		Kagawa, A. et al., "Fast Response Time STN=LCD with High Contrast Ratio" (1995), Proceedings of the 15th International Display Research Conference 177-180
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